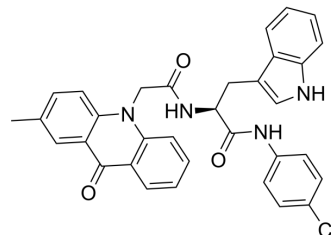


MARK4 inhibitor 4

Cat. No.:	HY-154988		
Molecular Formula:	C ₃₃ H ₂₇ ClN ₄ O ₃		
Molecular Weight:	563.05		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (177.60 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.7760 mL	8.8802 mL	17.7604 mL
				5 mM	0.3552 mL	1.7760 mL	3.5521 mL
				10 mM	0.1776 mL	0.8880 mL	1.7760 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.44 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	MARK4 inhibitor 4 is a MARK4 inhibitor with an IC ₅₀ of 1.49 μM. MARK4 inhibitor 4 can be used in cancer and tau lesion-related research ^[1] .	
IC ₅₀ & Target	IC ₅₀ : 1.49 μM (MARK4)	
In Vitro	MARK4 inhibitor 4 (Compound 23c) (1-20 μM; 24 h) has obvious inhibitory effect on the growth of Hela and U87MG cells, with EC ₅₀ s value of 2.16 and 3.51 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]	
	Cell Line:	Hela, U87MG, U251, MDA-MB-435, HGFs cells
	Concentration:	1-20 μM

Incubation Time:	24 h
Result:	Showed obvious cytotoxicity in Hela and U87MG cell lines.

REFERENCES

[1]. Voura M, et al. Synthesis, Structural Modification, and Bioactivity Evaluation of Substituted Acridones as Potent Microtubule Affinity-Regulating Kinase 4 Inhibitors[J]. ACS Pharmacology & Translational Science, 2023.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA